FARMWAY VILLAGE CALDWELL HOUSING AUTHORITY (PWS 3140012)

SOURCE WATER ASSESSMENT FINAL REPORT

April 12, 2006



State of Idaho Department of Environmental Quality

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Table of Contents

Executive Summary	iv
Section 1. Introduction - Basis for Assessment	
Level of Accuracy and Purpose of the Assessment	1
Section 2. Conducting the Assessment	1
General Description of the Source Water Quality	
Defining the Zones of Contribution—Delineation	
Identifying Potential Sources of Contamination	
Contaminant Source Inventory Process	
Section 3. Susceptibility Analyses	5
Hydrologic Sensitivity	
Well Construction	
Casing Diameter (inch)	
Casing Thickness	
Casing Depth (feet)	6
Potential Contaminant Sources and Land Use	6
Final Susceptibility Ranking	
Susceptibility Summary	7
Section 4. Options for Drinking Water Protection	7
Characteristics of an Effective Drinking Water Protection Program	
Focus on Long-Term Management Strategies	
Assistance	8
List of Acronyms and Definitions	9
References Cited	
Appendix A: Farmway Village Caldwell Housing Authority Well #5 Potential Contaminant Source Inventory	
•	, 1 <i>4</i>
Appendix B Farmway Village Caldwell Housing Authority Well #5 Susceptibility Analysis	12
Worksheet	
Report Index	15
List of Figures	
Figure 1, Geographic location of Farmway Village Caldwell Housing Authority, PWS# 3140012	2
Figure 2. Farmway Village Caldwell Housing Authority Well #5 delineation and potential contamination	
sources	4
List of Tables	_
Table 1. Farmway Village Caldwell Housing Authority well construction summary	
Table 2. Summary of Farmway Village Caldwell Housing Authority Main Well susceptibility evaluation Table 3. Farmway Village Caldwell Housing Authority Well #5 potential contaminant sources	
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Executive Summary

The Environmental Protection Agency (EPA), under the Safe Drinking Water Act Amendments of 1996, is requiring the State of Idaho to assess the potential susceptibility to contamination of all public water systems (PWS).

The primary objective of these source water assessments is to provide information that public water systems (PWS) can use to develop and implement local Drinking Water Protection Plans. By evaluating land use, system construction, and existing hydrologic and geologic conditions, systems are scored *high*, *medium*, or *low* in terms of their susceptibility to contamination.

What Was Assessed

This report evaluates Well #5 of the Farmway Village Caldwell Housing Authority community water system (PWS No. 3140012), located just northwest of Caldwell, Idaho near Highway 26. The system serves approximately 1,100 people through 70 metered connections. The report titled "Caldwell Housing Authority (PWS 3140012) Source Water Assessment Final Report" assessed Well #2, #3, and #4new, and is available from DEQ upon request.

How Susceptibility Scores Were Determined

Well susceptibility was scored in three areas:

- Well system construction
- Land use (type and amount) above the well's aquifer. Land use can differ among wells, so separate scores are given for each of four types of contaminants:
 - Inorganic contaminants (IOCs), such as nitrates and arsenic
 - Volatile organic contaminants (VOCs), such as petroleum products
 - Synthetic organic contaminants (SOCs), such as pesticides
 - Microbial contaminants, such as bacteria
- Hydrologic and geologic conditions surrounding the well

Scores for This Assessment

The final scores are as follows:

Drinking Water		Susceptibility Scores ¹								
Source	System Construction	,				Hydrologic Sensitivity	F	Final Susce	eptibility	Ranking
		IOC	VOC	SOC	Microbials		IOC	VOC	SOC	Microbials
Well #5	L	Н	M	M	M	M	M	M	M	M

 $^{{}^{1}}H = High Susceptibility, M = Moderate Susceptibility, L = Low Susceptibility,$

IOC = inorganic chemical, VOC = volatile organic chemical, SOC = synthetic organic chemical

Final susceptibility for Well #5 rated **moderate** for IOCs, VOCs, SOCs and microbial contaminants.

Hydrologic sensitivity for Well # 5 rated **moderate susceptibility.** Well system construction rated **low susceptibility** for Well #5. Based upon the number and type of potential contaminant sources found within three time-of-travel zones (zones indicating the number of years necessary for a particle of water to reach a well), land use rated **high susceptibility** for IOCs, and **moderate susceptibility** for VOCs, SOCs, and microbial bacteria.

Table 3, page 12, for a complete listing of these sources.

Summary of Laboratory Test Results for the System

A review of the system's laboratory tests, using the Safe Drinking Water Information System State (SDWISS), revealed the following:

- Tested water revealed no VOCs, SOCs, or repeat detections of microbial bacteria in Well #5.
- The IOCs nitrate, fluoride, barium, and arsenic have been detected in tested water. Concentrations of each potential contaminant are below maximum contaminant levels.

How to Use These Results

This assessment is provided as information regarding Farmway Village Caldwell Housing Authority's drinking water and should be used as a planning tool, taken into account with local knowledge and concerns, to develop and implement appropriate protection measures for this source.

DEQ strongly encourages each PWS to use the assessment report to develop a *Source Water Protection Plan*, which is a community-derived and proactive strategy to protect drinking water. Protection plans can help avoid drinking water contamination and reduce expensive treatment/replacement costs.

Protection plans can also help educate the served community. Many people have an "out of sight, out of mind" mentality, but improper disposal of certain chemicals can cause health impacts. For instance, concentrations of some contaminants, as small as a few parts-per-billion, can be higher than allowable limits.

These results should not be used as an absolute measure of risk, nor should they be used to undermine public confidence in the water system. A particular rating DOES NOT imply that any regulatory or legal actions will occur.

Suggested Activities to Protect Your Drinking Water

Drinking water protection activities should first focus on correcting any deficiencies outlined in the *sanitary survey* once it is conducted. Due to the time involved with the movement of ground water, drinking water protection activities should be aimed at long-term management strategies, even though these strategies may not yield results in the near term.

System operators should do the following:

- Maintain a 50-foot radius (IDAPA 58.01.08.900.01) clear of all potential contaminants around the wellhead.
 If the pump house resides within this distance. It is important to keep the pump house clean and to not store
 disinfection chemicals or other chemicals there. The 50-foot buffer also reduces potential contamination
 related to chemical application or irrigation practices; the water system should restrict chemical application
 and activities near the wellhead.
- Identify and consider all possible sources of contamination not identified in this report, such as septic system effluent and documenting those sources to identify potential contaminant threats that could impact the Farmway Village Caldwell Housing Authority drinking water wells.
- Correct any deficiencies included in the sanitary surveys—such as properly venting, drainage, and smooth nosed sample taps—as part of the water system's drinking water protection efforts.
- Carefully monitor and deal with any contaminant spills within the well's capture zone.
- Work with state and local agencies if the well's capture zone(s) are outside the direct jurisdiction of your PWS
- Locate new wells in areas with as few potential sources of contamination as possible, and ensure that each new site is reserved and protected.

A strong public education program should also be a primary focus of any drinking water protection plan, as most well capture zones contain at least some urban and residential land uses. Public education topics could include:

- Proper lawn and garden care practices
- Household hazardous waste disposal methods
- Proper care and maintenance of septic systems
- The importance of water conservation

Resources and Assistance

There are multiple resources available to help communities implement protection programs, including the Drinking Water Academy of the EPA. Drinking water protection activities for agriculture should be coordinated with the Idaho State Department of Agriculture, the Soil Conservation Commission, the local Soil and Water Conservation District, and the Natural Resources Conservation Service.

For assistance in developing protection strategies, contact DEQ's Boise Regional Office or the Idaho Rural Water Association.

Boise Regional DEQ Office (208) 373-0550

State DEQ Office (208) 373-0502

Website: http://www.state.id.us/deq

Water suppliers serving fewer than 10,000 persons may contact Melinda Harper (<u>mlharper@idahoruralwater.com</u>), Idaho Rural Water Association, at 1-208-343-7001 for assistance with drinking water protection (formerly wellhead protection) strategies.

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SOURCE WATER ASSESSMENT FOR THE FARMWAY VILLAGE CALDWELL HOUSING AUTHORITY WATER SYSTEM IN CANYON COUNTY, IDAHO

Section 1. Introduction - Basis for Assessment

The following sections contain information necessary to understand how and why this assessment was conducted. **It is important to review this information to understand what the ranking of this source means.** A map showing the delineated source water assessment area and the inventory of significant potential sources of contamination identified within that area are shown in Figure 1. The list of significant potential contaminant source categories used to develop the assessment is included as

Table 3 in Appendix A.

Level of Accuracy and Purpose of the Assessment

The Idaho Department of Environmental Quality (DEQ) is required by the U.S. Environmental Protection Agency (EPA) to assess every public water system (PWS) source in Idaho for their relative susceptibility to contaminants regulated by the Safe Drinking Water Act. This assessment is based on a land use inventory of the delineated assessment area; sensitivity factors associated with the drinking water source, and local aquifer characteristics. The resources and time available to accomplish assessments are limited. Therefore, an in-depth, site-specific investigation to identify each significant potential source of contamination for every public water supply system is not possible. This assessment should be used as a planning tool, taken into account with local knowledge and concerns, to develop and implement appropriate protection measures for this source. The results should not be used as an absolute measure of risk and they should not be used to undermine public confidence in the PWS.

The ultimate goal of the assessment is to provide data to local communities to develop a protection strategy for their drinking water supply system. The DEQ recognizes that pollution prevention activities generally require less time and money to implement than treatment of a public water supply system once it has been contaminated. The DEQ also encourages communities to balance resource protection with economic growth and development. The decision as to the amount and types of information necessary to develop a drinking water protection program should be determined by the local community and be based upon its own needs and limitations. Wellhead or drinking water protection is one facet of a comprehensive growth plan, and it can complement ongoing local planning efforts.

Section 2. Conducting the Assessment

General Description of the Source Water Quality

Farmway Village Caldwell Housing Authority, PWS# 3140012, is a community drinking water system located in Canyon County approximately 2 miles northwest of the City of Caldwell (Figure 1). The water system serves about 1,100 people through 70 metered connections.

According to the Safe Drinking Water Information System State, no volatile organic contaminants (VOCs), synthetic organic contaminants (SOCs), or microbial bacteria have ever been detected in Well #5. The inorganic contaminants (IOCs) sodium, fluoride, barium, and arsenic have been detected in tested water; however concentrations of each have been below maximum contaminant levels (MCLs) set by the Environmental Protection Agency (EPA). Well #5 exists within a county with high nitrogen fertilizer use, high herbicide use, and high total agricultural chemical use.

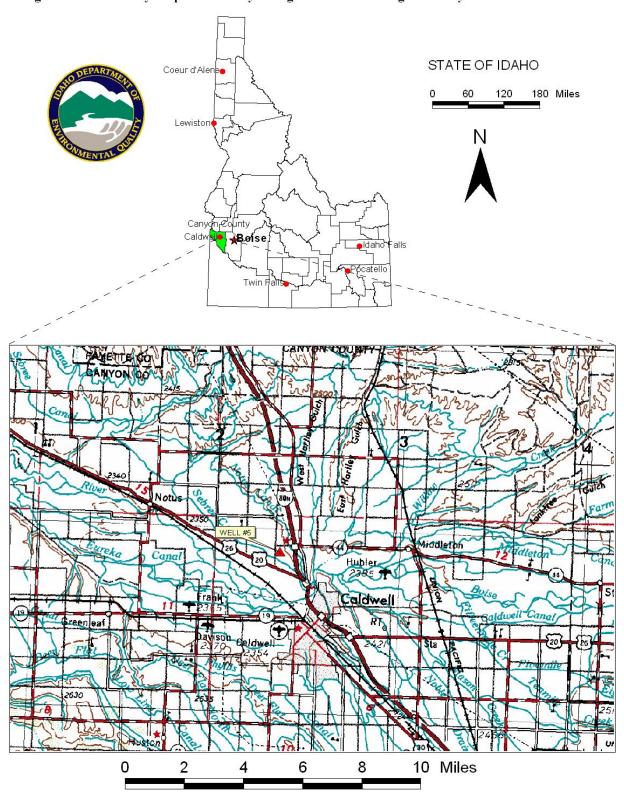


Figure 1. Site Vicinity Map of Farmway Village Caldwell Housing Authority

Figure 1, Geographic location of Farmway Village Caldwell Housing Authority, PWS# 3140012.

Defining the Zones of Contribution—Delineation

The delineation process establishes the physical area around a well that will become the focal point of the assessment. The process includes mapping the boundaries of the zone of contribution into time-of-travel (TOT) zones (zones indicating the number of years necessary for a particle of water to reach a pumping well) for water in the aquifer.

DEQ defined the zones of water contribution by using a refined computer model approved by the EPA in determining the 3-year (Zone IB), 6-year (Zone II), and 10-year (Zone III) TOT zones for water associated with the Farmway Village Caldwell Housing Authority water system.

The computer model used site-specific data, assimilated from a variety of sources, including well logs (when available) and hydrogeologic reports.

Generally, groundwater in this area flows in a southwesterly direction. Surface water probably recharges the aquifer to some extent.

The Farmway Village Caldwell Housing Authority Water System Well #5 is completed in fine sand. It's delineation extends approximately 1 mile northeastward and encompasses an area up to approximately 0.6 miles wide (see Figure 2). The actual data used to determine the source water assessment delineation area is available from DEQ upon request.

Identifying Potential Sources of Contamination

A potential source of contamination is defined as any facility or activity that stores, uses, or produces, as a product or by-product, the contaminants regulated under the Safe Drinking Water Act and has a sufficient likelihood of releasing such contaminants at levels that could pose a concern relative to drinking water sources.

The goal of the inventory process is to locate and describe those facilities, land uses, and environmental conditions that are potential sources of ground water contamination. The potential contaminant source locations within the delineation areas were obtained from existing databases and field surveys conducted by DEQ.

It is important to understand that a release may never occur from a potential source of contamination provided best management practices are used by the facility. Many potential sources of contamination are regulated at the federal level, state level, or both to reduce the risk of release. Therefore, when a business, facility, or property is identified as a potential contaminant source, this should not be interpreted to mean that this business, facility, or property is in violation of any local, state, or federal environmental law or regulation. What it does mean is that the potential for contamination exists due to the nature of the business, industry, or operation.

There are a number of methods that water systems can use to work cooperatively with potential sources of contamination, such as educational visits and inspections of stored materials. Many owners of such facilities may not even be aware that they are located near a public water supply well.

Contaminant Source Inventory Process

A two-phased contaminant inventory for Main Well was conducted during 2005. For reference, the well location, TOT zones, and potential contaminant sources are included in Figure 2 and Appendix A, Table 3.

- The first phase involved identifying and documenting potential contaminant sources within the water system's source water assessment area through the use of computer databases and geographic information system (GIS) maps developed by the DEQ.
- The second phase, or *enhanced*, portion of the inventory was to contact the water system. At the time of the enhanced inventory, no additional potential contaminant sources were identified.

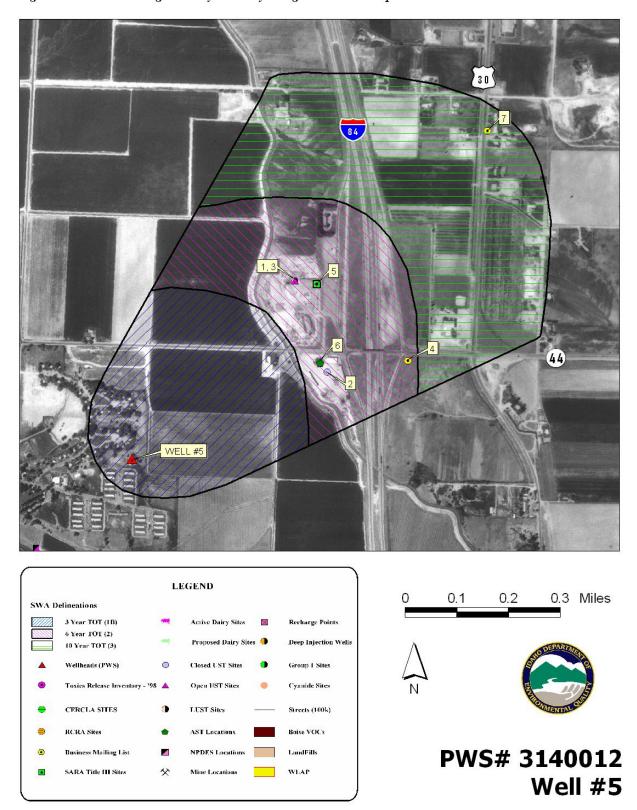


Figure 2. Caldwell Housing Authority Farmway Village Delineation Map and Potential Contaminant Source Locations

Figure 2. Farmway Village Caldwell Housing Authority Well #5 delineation and potential contamination sources.

Section 3. Susceptibility Analyses

The susceptibility of the well to contamination was ranked as *high*, *moderate*, or *low* risk according to the following considerations:

- Hydrologic characteristics
- Physical integrity of the well
- Land use characteristics
- Potentially significant contaminant sources

The susceptibility rankings are specific to a particular potential contaminant or category of contaminants. Therefore, a high susceptibility rating relative to one potential contaminant does not mean that the water system is at the same risk for all other potential contaminants. The relative ranking that is derived for each well is a qualitative, screening-level step that, in many cases, uses generalized assumptions and best professional judgment. The following summaries describe the rationale for the susceptibility ranking. The susceptibility analysis worksheets have been included in Appendix B of this assessment.

Hydrologic Sensitivity

The hydrologic sensitivity of a well is dependent upon four factors:

- Surface soil composition
- Material in the vadose zone (between the land surface and the water table)
- Depth to first ground water
- Presence of an aquitard (50 feet of impermeable materials above the producing zone of the well)

Slowly draining soils such as silt and clay typically are more protective of ground water than coarse-grained soils such as sand and gravel. Similarly, fine-grained sediments in the subsurface and a water depth of more than 300 feet protect the ground water from contamination.

The hydrologic sensitivity rated **moderate susceptibility** for Well #5. This ranking is based upon the Natural Resource Conservation Service regional soil classifications as being *moderately- to well drained*. According to the well log, the vadose zone is composed of predominantly permeable materials, the water table is only 21.6 feet below ground surface (bgs), and an aquitard is present above the well's producing zone.

Well Construction

Well construction directly affects the ability of the well to protect the aquifer from contaminants. System construction scores are reduced when information shows that potential contaminants will have a more difficult time reaching the intake of the well. Lower scores imply a system that can better protect the water. If the casing and annular seal both extend into a low permeability unit then the possibility of cross contamination from other aquifer layers is reduced and the system construction score goes down. If the highest production interval is greater than 100 feet below the water table, then the system is considered to have better buffering capacity. When information was adequate, a determination was made as to whether the casing and annular seals extend into low permeability units and whether current PWS construction standards are met.

The system construction scores rated **low susceptibility** for the Well #5.

The well is located outside of a 100-year floodplain. According to the well log, highest production comes from more than 100 feet below static water levels and the casing and annular seal extend to low-permeability units. According to the 2004 Sanitary Survey, the wellhead and surface seal are maintained.

According to the well log, a 10-inch casing (0.365 inches thick) was placed from +2 feet to 152 feet bgs and seated into "tan clay". A screen was placed from 152 feet bgs to 167 feet bgs. An annular seal was placed from

the surface to 109 feet bgs, thru a 40 foot thick layer of "brown clay". The static water table was measured at 21.6 feet bgs. These well parameters were consolidated in Table 1.

Current PWS well construction standards can be more stringent than when a well(s) was constructed. The Idaho Department of Water Resources *Well Construction Standards Rules* (1993) require all PWSs to follow DEQ standards as well. IDAPA 58.01.08.550 requires that PWSs follow the *Recommended Standards for Water Works* (1997) during construction. Some of the regulations deal with screening requirements, aquifer pump tests, use of a down-turned casing vent, and thickness of casing. Table 1 of the *Recommended Standards for Water Works* (1997) lists the required steel casing thickness for various diameter wells.

Regulations for steel pipe thickness based on size of pipe

Size of pipe (inches)	Thickness (inches)
≤6	0.280
8	0.322
10	0.365
12	0.375

Well tests are required at the design pumping rate for 24 hours or until stabilized drawdown has continued for at least six hours when pumping at 1.5 times the design pumping rate.

Because the well's construction does not meets all current standards, the well was assessed an additional system construction point.

Table 1. Farmway Village Caldwell Housing Authority well construction summary.

	Well Tag No.	Well Depth (feet)	Casing Diameter (inch)	Casing Thickness (inch)	Casing Depth (feet)	Water Table Depth (feet)	Screened	Depth	Year	Well Log Available	IDWR/ DEQ Standards Met?
Well #5	D0031772	191	8, 10	0.365	+2-152	21.6	152-167	109	2004	Yes	No

Potential Contaminant Sources and Land Use

The potential contaminant sources and land use within the delineated zones of water contribution are assessed to determine each well's susceptibility. When agriculture is the predominant land use in the area, this may increase the likelihood of agricultural wastewater infiltrating the ground water system. Agricultural land is counted as a source of leachable contaminants and points are assigned to this rating based on the percentage of agricultural land.

In terms of potential contaminant sources and land use, Well #5 rated **high susceptibility** for IOCs (e.g., nitrates, arsenic), and **moderate susceptibility** for VOCs (e.g., petroleum products), SOCs (e.g., pesticides), for microbial contaminants (e.g., bacteria).

The potential contaminant sources existing within the delineated capture zones include Highways 26, 30, and 44, Interstate 84, and a canal. Additionally, petroleum storage, a paving contractor, and a truck repair business are present.

Since the delineated area resides within an agriculturally developed area, other potential contaminants to consider are agricultural runoff associated with chemical application. Additionally, Canyon County nitrogen fertilizer usage is considered high. As such, the agricultural land usage was factored into the rating.

A complete list of the potential contaminant sources is included in Appendix A of this report (

Table 3, page 12). The map shown in Figure 2 symbolizes the potential contaminant sources within the well's capture zones. The contaminant sources have been labeled with unique map identifiers (i.e., Map IDs) to reference with the corresponding list of potential contaminant sources in Appendix A.

Final Susceptibility Ranking

Detection above a drinking water standard MCL, any detection of a VOC or SOC, or a confirmed microbial detection at the drinking water source will automatically give a high susceptibility rating, despite the land use of the area, because a pathway for contamination already exists. Additionally, potential contaminant sources within 50 feet of a well will automatically lead to a high susceptibility rating. Having multiple potential contaminant sources in the 0- to 3-year TOT zone (Zone IB) contributes greatly to the overall ranking.

Susceptibility Summary

In terms of total susceptibility, Well #5 rated **moderate susceptibility** for IOCs, VOCs, SOCs and microbial contaminants. The system construction score was **low susceptibility**, whereas the hydrologic sensitivity rated as **moderate susceptibility**. The potential contaminant/land use scores were **high susceptibility** for IOCs, and **moderate susceptibility** for VOCs, SOCs, microbial sources. Refer to Table 2 for a summary of the Farmway Village Caldwell Housing Authority Well #5 susceptibility evaluation.

Table 2. Summary of Farmway Village Caldwell Housing Authority Main Well susceptibility evaluation.

Drinking	Susceptibility Scores ¹									
Water			Potentia	ıl Conta	minant					
Source	System	Inventory/Land Use			Hydrologic	Fin	al Susce	ptibility	Ranking	
	Construction	IOC	VOC	SOC	Microbials	Sensitivity	IOC	VOC	SOC	Microbials
Well #5	L	Н	M	M	M	M	M	M	M	M

^TH = High Susceptibility, M = Moderate Susceptibility, L = Low Susceptibility; IOC = Inorganic chemical, VOC = Volatile organic chemical, SOC = Synthetic organic chemical

There are no major issues affecting tested water from Well #5. According to the State Safe Drinking Water Information System no VOCs, SOCs, or microbial bacteria have ever been detected in the well. The IOCs nitrate, fluoride, barium, and arsenic have been detected, but at concentrations below MCLs set by EPA.

Section 4. Options for Drinking Water Protection

This source water assessment should be used as a basis for determining appropriate new protection measures or re-evaluating existing protection efforts. No matter what the susceptibility ranking a source receives, protection is always important. Whether the source is currently located in a "pristine" area or an area with numerous industrial and/or agricultural land uses that require education and surveillance, the way to ensure good water quality in the future is to act now to protect valuable water supply resources.

Characteristics of an Effective Drinking Water Protection Program

An effective drinking water protection program is tailored to the particular drinking water protection area. A community with a fully developed drinking water protection program will incorporate many strategies.

Drinking water protection activities for Farmway Village Caldwell Housing Authority should first focus on correcting any deficiencies outlined in the sanitary survey. The purpose of this survey is to inspect a water system every five years, to evaluate the physical condition of that water system's components and its capacity.

Although this report did not identify any potential contaminants within the well's 50-foot setback, it is important to maintain the well's setback as an additional protection measure by keeping the pump house clean and not storing disinfection chemicals or other chemicals within this building.

Another reason for maintaining the buffer distance is to reduce the likelihood of contamination related to chemical application or irrigation practices that encroaches the well. The water system should restrict chemical application and activities near the wellhead.

Surface water sources located within 200 feet of the wellhead can be a potential source for contamination. Streams, canals, or ditches can transport many types of chemical contaminants that can move quickly, infiltrate soils, and possibly be drawn into ground water.

On-site septic systems should be identified and evaluated with respect to effluent discharge near the wellhead.

Protection of the area near the well is crucial, but all aspects of the water system are equally important: other deficiencies can include acquiring a certified Substitute Responsible in Charge Operator, having the ability to isolate the pressure tanks, and developing a written cross connection control program. Furthermore, developing a cross connection control plan will assist the water system in educating homeowners about back flow prevention devices to help reduce the possibility of used water entering distribution lines.

Focus on Long-Term Management Strategies

Due to the time involved with the movement of ground water, drinking water protection activities should be aimed at long-term management strategies, even though these strategies may not yield results in the near future. It is therefore recommended that Farmway Village Caldwell Housing Authority consider developing a drinking water protection plan.

Important aspects of a drinking water protection plan include documenting and ranking the potential contaminant sources, outlining best management practices, and educating residents about their drinking water. Multiple resources are available to help communities develop a drinking water protection plan, including the Drinking Water Academy of the EPA. Working with Canyon County, the local Soil Conservation District, and vicinity landowners will better inform the water system of chemicals that may be used, stored, or applied near the drinking water well.

A community must incorporate a variety of strategies in order to develop a comprehensive drinking water protection plan, be they regulatory in nature (e.g., zoning, permitting) or non-regulatory in nature (e.g., good housekeeping, public education, specific best management practices). For assistance in protection strategies, please contact the DEQ Boise Regional Office or the Idaho Rural Water Association (IRWA).

Assistance

Public water supplies and others may call the following DEQ offices with questions about this assessment and to request assistance with developing and implementing a local protection plan. In addition, draft protection plans may be submitted to the DEQ office for preliminary review and comments.

Boise Regional DEQ Office (208) 373-0550 State DEQ Office (208) 373-0502

Website: http://www.deq.state.id.us

Water suppliers serving fewer than 10,000 persons may contact Melinda Harper (harperm@idahoruralwater.com) with IRWA, at (208) 343-7001, for assistance with drinking water protection strategies.

List of Acronyms and Definitions

AST (**Aboveground Storage Tanks**) – Sites with aboveground storage tanks.

bgs (Below Ground Surface) – Depth below the surface of the ground.

Business Mailing List – This list contains potential contaminant sites identified through a yellow pages database search of standard industry codes (SIC).

CERCLIS – This includes sites considered for listing under the **Comprehensive Environmental Response Compensation and Liability Act** (**CERCLA**).

CERCLA, more commonly known as "Superfund" is designed to clean up hazardous waste sites that are on the national priority list (NPL).

Cyanide Site – DEQ permitted and known historical sites/facilities using cyanide.

Dairy – Sites included in the primary contaminant source inventory represent those facilities regulated by Idaho State Department of Agriculture (ISDA) and may range from a few heads to several thousand head of milking cows.

Deep Injection Well – Injection wells regulated under the Idaho Department of Water Resources generally for the disposal of storm water runoff or agricultural field drainage.

Enhanced Inventory – Enhanced inventory locations are potential contaminant source sites added by the water system. These can include new sites not captured during the primary contaminant inventory, or corrected locations for sites not properly located during the primary contaminant inventory. Enhanced inventory sites can also include miscellaneous sites added by the Idaho Department of Environmental Quality (DEQ) during the primary contaminant inventory.

Floodplain – This is FEMA data for the 100-year floodplains.

Group 1 Sites – These are sites that show elevated levels of contaminants and are not within a priority one area.

Inorganic Priority Area – Priority one areas where greater than 25% of the wells/springs show constituents higher than primary standards or other health standards.

Landfill – Areas of open and closed municipal and non-municipal landfills.

LUST (Leaking Underground Storage Tank) – Potential contaminant source sites associated with leaking underground storage tanks as regulated under RCRA.

Mines and Quarries – Mines and quarries permitted through the Idaho Department of Lands.)

Nitrate Priority Area – Area where greater than 25% of wells/springs show nitrate values above 5 mg/L.

NPDES (National Pollutant Discharge Elimination System) – Sites with NPDES permits. The Clean Water Act requires that any discharge of a pollutant to waters of the United States from a point source must be authorized by an NPDES permit.

Organic Priority Areas – These are any areas where greater than 25% of wells/springs show levels greater than 1% of the primary standard or other health standards.

Recharge Point – This includes active, proposed, and possible recharge sites on the Snake River Plain.

RICRIS – Site regulated under **Resource Conservation Recovery Act (RCRA)**. RCRA is commonly associated with the cradle to grave management approach for generation, storage, and disposal of hazardous wastes.

Sanitary Survey – An onsite review of the water source, facilities, equipment, operation, and maintenance of a public water system for the purpose of evaluating the adequacy of such source, facilities, equipment, operation, and maintenance for producing and distributing safe drinking water.

SARA Tier II (Superfund Amendments and Reauthorization Act Tier II Facilities) – These sites store certain types and amounts of hazardous materials and must be identified under the Community Right to Know Act.

Toxic Release Inventory (TRI) – The toxic release inventory list was developed as part of the Emergency Planning and Community Right to Know (Community Right to Know) Act passed in 1986. The Community Right to Know Act requires the reporting of any release of a chemical found on the TRI list.

UST (**Underground Storage Tank**) – Potential contaminant source sites associated with underground storage tanks regulated as regulated under RCRA.

Wastewater Land Applications Sites – These are areas where the land application of municipal or industrial wastewater is permitted by DEQ.

Wellheads – These are drinking water well locations regulated under the Safe Drinking Water Act. They are not treated as potential contaminant sources.

NOTE: Many of the potential contaminant sources were located using a geocoding program where mailing addresses are used to locate a facility. Field verification of potential contaminant sources is an important element of an enhanced inventory.

References Cited

Great Lakes-Upper Mississippi River Board of State and Provincial Public Health and Environment Managers, 1997. "Recommended Standards for Water Works."

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Appendix A: Farmway Village Caldwell Housing Authority Well #5 Potential Contaminant Source Inventory

Table 3. Farmway Village Caldwell Housing Authority Well #5 potential contaminant sources.

	. Farmway vinage Caldwell Housing Auth		<u> </u>	T SOUT COST
Map ID	Contaminant Description ¹	TOT Zone ² (years)	Source of Information	Potential Contaminants ³
1,3	UST site, LUST site (cleanup complete; impact unknown)	3-6YR	Database Search	VOC, SOC
2	UST site (closed)	3-6YR	Database Search	VOC, SOC
4	Paving Contractor	3-6YR	Database Search	IOC, VOC, SOC
5	SARA site	3-6YR	Database Search	IOC, VOC, SOC
6	AST site	3-6YR	Database Search	VOC, SOC
7	Truck repairing and services	610YR	Database Search	IOC, VOC, SOC
		0-3YR, 3-6YR,		
	Canal	610YR	Мар	IOC, VOC, SOC, Microbial bacteria
	Interstate 84	3-6YR,6-10YR	Мар	IOC, VOC, SOC
	Highway 30	3-6YR,6-10YR	Мар	IOC, VOC, SOC
		0-3YR, 3-6YR,		
	Highway 44	610YR	Мар	IOC, VOC, SOC, Microbial bacteria

Refer To Potential Contaminant Inventory List Of Acronyms And Definitions

²TOT = Time-of-travel (in years) for potential contaminant to reach the wellhead

³IOC = Inorganic chemical; VOC = Volatile organic chemical; SOC = Synthetic organic chemical

Appendix B Farmway Village Caldwell Housing Authority Well #5 Susceptibility Analysis Worksheet

Susceptibility Analysis Formulas

The final scores for the susceptibility analysis were determined using the following formulas:

- 1) VOC/SOC/IOC Final Score = Hydrologic Sensitivity + System Construction + (Potential Contaminant/Land Use x 0.2)
- 2) Microbial Final Score = Hydrologic Sensitivity + System Construction + (Potential Contaminant/Land Use x 0.375)

Intermediate Scoring for System Construction, Hydrologic Sensitivity, and Potential Contaminant/Land Use:

- 0-1 Low
- 2 4 Moderate
- 5-6 High

Final Susceptibility Scoring:

- 0 5 Low Susceptibility
- 6 12 Moderate Susceptibility
- ≥ 13 High Susceptibility

Drill Date	2004			
Driller's Log Available YES Well meet construction standards Well and surface seal maintained YES Well located outside the 100 year flood plain YES Well located outside the 100 year flood plain YES Well located outside the 100 year flood plain YES Well located outside the 100 year flood plain YES Well of year of the year of the year of years Well system Construction No Total System Construction Well of year of years Well year of years Well are poorly to moderately drained No YES Aquitard present with > 50 feet cumulative thickness YES Total Hydrologic Potential Contaminant / Land Use - ZONE 1A Land Use Zone 1A Farm chemical use high YES 10C, VOC, SOC, or Microbial sources in Zone 1A No Total Potential Contaminant Source/Land Use Score - Zone Potential Contaminant / Land Use - ZONE 1B Contaminant sources present (Number of Sources) (Score = # Sources X 2)				
Sanitary Survey (if yes, indicate date of last survey) Well meet construction standards Wellhead and surface seal maintained YES Casing and annular seal extend to low permeability unit Highest production 100 feet below static water level Well located outside the 100 year flood plain YES Well located outside the 100 year flood plain YES Total System Construction Hydrologic Sensitivity Soils are poorly to moderately drained Vadose zone composed of gravel, fractured rock or unknown Depth to first water > 300 feet NO Aquitard present with > 50 feet cumulative thickness YES Total Hydrologic Potential Contaminant / Land Use - ZONE 1A Land Use Zone 1A Farm chemical use high YES 10C, VOC, SOC, or Microbial sources in Zone 1A NO Total Potential Contaminant Source/Land Use Score - Zone Potential Contaminant sources present (Number of Sources) (Score = # Sources X 2 # Points Maximum Sources of Class II or III leacheable contaminants or Land use Zone 1B Contaminant / Land Use - ZONE II Contaminant Sources Present YES Sources of Class II or III leacheable contaminants or Land Use Zone II Contaminant Source / Land Use Score - Zone Potential Contaminant / Land Use - ZONE II Contaminant Sources Present YES Sources of Class II or III leacheable contaminants or YES Sources of Class II or III leacheable contaminants or YES Sources of Class II or III leacheable contaminants or YES Sources of Class II or III leacheable contaminants or YES Sources of Class II or III leacheable contaminants or YES Sources of Class II or III leacheable contaminants or YES Sources of Class II or III leacheable contaminants or YES Total Potential Contaminant Source / Land Use Score - Zone III Contaminant Source Present YES Sources of Class II or III leacheable contaminants or YES Total Potential Contaminant Source / Land Use Score - Zone III Contaminant Source Present YES Total Potential Contaminant Source / Land Use Score - Zone III Total Potential Contaminant Source / Land Use Score - Zone III				
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Land use Zone 1B Greater Than 50% Irrigated Agricultum Total Potential Contaminant Source / Land Use Score - 2 Potential Contaminant / Land Use - ZONE II Contaminant Sources Present YES Sources of Class II or III leacheable contaminants or YES Land Use Zone II 25 - 50% Irrigated Agricultural Potential Contaminant Source / Land Use Score - Zo Potential Contaminant / Land Use - ZONE III Contaminant Source Present YES Sources of Class II or III leacheable contaminants or YES Is there irrigated agricultural lands that occupy > 50% of YES Total Potential Contaminant Source / Land Use Score - Zo Cumulative Potential Contaminant / Land Use Score	0	0	0	0
Total Potential Contaminant Source / Land Use Score - 2 Potential Contaminant / Land Use - ZONE II Contaminant Sources Present YES Sources of Class II or III leacheable contaminants or YES Land Use Zone II 25 - 50% Irrigated Agricultural Potential Contaminant Source / Land Use Score - Zone Til Contaminant Source Present YES Sources of Class II or III leacheable contaminants or YES Is there irrigated agricultural lands that occupy > 50% of YES Total Potential Contaminant Source / Land Use Score - Zone III Total Potential Contaminant Source / Land Use Score - Zone III Contaminant Source Present YES Is there irrigated agricultural lands that occupy > 50% of YES Total Potential Contaminant Source / Land Use Score - Zone III III Potential Contaminant Source / Land Use Score - Zone III III III III III III III III III I		4	4	4
Potential Contaminant / Land Use - ZONE II Contaminant Sources Present YES Sources of Class II or III leacheable contaminants or YES Land Use Zone II 25 - 50% Irrigated Agricultural Potential Contaminant Source / Land Use Score - Zo Potential Contaminant / Land Use - ZONE III Contaminant Source Present YES Sources of Class II or III leacheable contaminants or YES Is there irrigated agricultural lands that occupy > 50% of YES Total Potential Contaminant Source / Land Use Score - Zo Cumulative Potential Contaminant / Land Use Score	Zone 1B 16	12	12	10
Contaminant Sources Present Sources of Class II or III leacheable contaminants or Land Use Zone II Potential Contaminant Source / Land Use Score - Zo Potential Contaminant / Land Use - ZONE III Contaminant Source Present Sources of Class II or III leacheable contaminants or Is there irrigated agricultural lands that occupy > 50% of Total Potential Contaminant Source / Land Use Score - Zo Total Potential Contaminant Source / Land Use Score - Zo Cumulative Potential Contaminant / Land Use Score				
Land Use Zone II 25 - 50% Irrigated Agricultural Potential Contaminant Source / Land Use Score - Zo Potential Contaminant / Land Use - ZONE III Contaminant Source Present YES Sources of Class II or III leacheable contaminants or YES Is there irrigated agricultural lands that occupy > 50% of YES Total Potential Contaminant Source / Land Use Score - Zo Cumulative Potential Contaminant / Land Use Score	2	2	2	
Land Use Zone II 25 - 50% Irrigated Agricultural Potential Contaminant Source / Land Use Score - Zo Potential Contaminant / Land Use - ZONE III Contaminant Source Present YES Sources of Class II or III leacheable contaminants or YES Is there irrigated agricultural lands that occupy > 50% of YES Total Potential Contaminant Source / Land Use Score - Zo Cumulative Potential Contaminant / Land Use Score	1	1	1	
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Potential Contaminant / Land Use - ZONE III Contaminant Source Present YES Sources of Class II or III leacheable contaminants or YES Is there irrigated agricultural lands that occupy > 50% of YES Total Potential Contaminant Source / Land Use Score - Zo Cumulative Potential Contaminant / Land Use Score	one II 4	4	4	
Sources of Class II or III leacheable contaminants or YES Is there irrigated agricultural lands that occupy > 50% of YES Total Potential Contaminant Source / Land Use Score - Zo Cumulative Potential Contaminant / Land Use Score				
Is there irrigated agricultural lands that occupy > 50% of YES Total Potential Contaminant Source / Land Use Score - Zo Cumulative Potential Contaminant / Land Use Score	1	1	1	
Is there irrigated agricultural lands that occupy > 50% of YES Total Potential Contaminant Source / Land Use Score - Zo Cumulative Potential Contaminant / Land Use Score	1	0	0	
Total Potential Contaminant Source / Land Use Score - Zo Cumulative Potential Contaminant / Land Use Score	1	1	1	
Cumulative Potential Contaminant / Land Use Score		3	3	
	23 (H)) 19 (M)	19 (M)	
Final Susceptibility Source Score	10	9	9	8

Report Index

nitrate, v, 9

\mathbf{A}	P
agricultural wastewater, 6 aquifer, iv, 1, 3, 5 arsenic, iv, 6	permeability, 5, 14 potential source of contamination definition, 3 protection measures, v, 1, 7
В	protection strategy, 1
back flow prevention, 8 best management practices, 3, 8	R
Bingham County, 6, 8	recharge, 9 risk
\mathbf{C}	levels, 5
Caldwell, 1, 3 Canyon County, 1	S
construction scores, 5 contaminant inventory, 3, 9 cross connection control program, v, 8	Safe Drinking Water Act, 1, 3, 9 soil classification, 5 susceptibility analysis, 5
D	T
disinfection chemicals, v, 7	time-of-travel (TOT), 3
H	${f U}$
hydrologic sensitivity, 5, 7	U.S. Environmental Protection Agency (EPA), 1
I	${f v}$
Idaho Rural Water Association (IRWA), 8	vadose zone, 5
${f L}$	\mathbf{W}
land use, 1, 5, 6, 7 leachable contaminants, 6	well construction, 5 well drilling information, 5
${f N}$	${f Z}$
Natural Resource Conservation Service, 5	zones of water contribution, 3

Form 238-7 6/02 IDAHO DEPARTMENT OF WATER RES WELL DRILLER'S REPOR		3		Office Well ID No. 8 Inspected by	Use Only 20 6 0 7		
I. WELL TAG NO. D 003/772	,			Twp Rge			
ORILLING PERMIT NO. 63-/222/				1/4		/4	
Vater Right or Injection Well No.	12. WELI	LTESTS:		Lat: : :	Long: :	_:	
	5	Pump	_ Bailer	🗆 Air 🗆 Flo	wing Artesian		
. OWNER:		al./min.	Drawdown			Time	
lame Caldwell Housing Hathority	250	6 PM	11.4	4 39'	61	515	
ity <u>Coldwell</u> State <u>Id</u> . Zip 83606							
LOCATION OF WELL by Level decoded	Water Terr	p			_ Bottom hole te	mp	
b. LOCATION OF WELL by legal description: four must provide address or Lot, Blk, Sub, or Directions to well.	Water Qua	lity test or	comments: _				
wp North 🗷 or South 🗆				Depth	first Water Enco	unter	
lge. 3 East □ or West 🕊	13. LITH	OLOGIC	LOG: (Descrit	e repairs or abando	nment)	W	ater
· · · · · · · · · · · · · · · · · · ·	Bore _					_	Т
ec. 9 , 1/4 / 1/4	Dia. From	n To		ithology, Water Quality	& lemperature	Y	N
at: : Long: : :	701 0		Top50	. /			\perp
ddress of Well Site Labor Camp RJ.	14	13'	Burnt	Bin Clay		<u> </u>	<u> </u>
City Coldwell	13	41	River	Rock			1
(Novo at east name of read + Distance to Road or unit to the St. Sub. Name Well No. 5	61	101		ay S+KS	Sand		_
L DIK Sub. Name 11-C(1 148, 0	10	1'/21'	Fine	Sand			\perp
	1/2/	1 132	Tan 1	cley			╙
USE:	//3:	1/1401	Fine ;	Sand			<u> </u>
☐ Domestic Municipal ☐ Monitor ☐ Irrigation	140	1501	Ten 6	lay			╙
☐ Thermal ☐ Injection ☐ Other		1180	Fine 5				╙
	180	181'	Sandy	Clay			ļ
TYPE OF WORK check all that apply (Replacement etc.)							
□ New Well □ Modify □ Abandonment □ Other Replacement	•						
SEALING PROCEDURES Seal Material Seal Placement Method Bendon, fe 4 6 109 34,000 Pry Pour		-					
/as drive shoe used? ☐Y ☑N Shoe Depth(s)						+	+
/as drive shoe seal tested? \[\textstyle Y \textstyle N \text{How?} \]	-				_	+	
GASING/LINER:						-	+
Diameter From To Gauge Material Casing Liner Welded Threade	d						\vdash
10" +2 152',365 Steel X X						†	
9' 167' 177' 365 Steel X X					-		1
			RF	CEIVED			
ength of Headpipe Length of Tailpipe				0 - 1 7 - 5			
acker 🗆 Y 🔏N Type	-		SE.	P 0 7 2004			
PERFORATIONS/SCREENS PACKER TYPE							
erforation Method		_	WATE	R RESOURCES			
creen Type & Method of Installation Johnson Wice Wrap			WES	TERN REGION			
From To Slot Size Number Diameter Material Casing Liner			L				
152' 167' ,015 8' 55. K	Complete	ed Depth		172'	(/leasura	able)
	Date: S	tarted	1-16-	04 Com	oleted 8-	18-0	4
	L		RTIFICATION				
D. FILTER PACK				nstruction standards v	vere complied w	ith at th	ne
Filter Material From To Weight / Volume Placement Method	time the rig						-
(951 10 20 109' 181'	Company	Name 1	River	1. Inc	F	10. 3 3	2.2
	Company .	vame	· ruers	T- JINC	Firm I	NO. <u>/ ?</u>	_
I. STATIC WATER LEVEL OR ARTESIAN PRESSURE:	Principal D	riller			Date		
tt. below ground Artesian pressurelb.	and .		1/		Date 8	3.5	
epth flow encounteredft. Describe access port or control devices:	Driller or C	perator	las h	hui to 1	Date <i>&</i> -	-20	-0
Santary Well cap	Operator	Ju		Miller .	Date		
,	//	1	Principal Driller	and Rig Operator Re			
		Ope		e signature of Driller			